



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/091,578

03/07/2002

Gang Wu

4035-0146P

7931

2292

7590

12/29/2005

BIRCH STEWART KOLASCH & BIRCH

PO BOX 747

FALLS CHURCH, VA 22040-0747

EXAMINER

GREY, CHRISTOPHER P

ART UNIT

PAPER NUMBER

2667

DATE MAILED: 12/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/091,578	Applicant(s) WU ET AL.	
	Examiner Christopher P. Grey	Art Unit 2667	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

1. Claims 1 and 3 are rejected under 35 U.S.C. 102(a) as being anticipated by Krishnarajah et al. (US 2002/0191556), hereinafter referred to as Krishnarajah

Claim 1 Krishnarajah discloses a network system that seamlessly integrates radio systems, the system being characterized in that a basic access network enables communication between a basic access component (element 33 in fig 2) provided in a mobile host and widely deployed basic access network (elements 530 in fig 5) base stations (elements 28 in fig 5), and comprises a basic access network channel implemented with a two-way radio interface (paragraph 0043/Um and Para 0054); and a basic access network protocol to communicate with the common core network or the rest of the integrated network. seamless integrated network system for radio systems (paragraph 0051 and 0047 and see the core network and data network in fig 5).

Claim 3 Krishnarajah discloses transmission base stations and reception base stations disposed within a basic access network (elements 38 in fig 2 and elements 28 in fig 5)

Krishnarajah discloses each of said transmission base stations transmitting downlink data to the basic access component (element 33 in fig 2) provided in the

mobile host located in an area within a radius of several to several tens of kilometers of the transmission base station (see fig 2), where Krishnarajah discloses a base station serving a cell, where a cell is known to serve a radius of a few kilometers (Para 0040).

Krishnarajah discloses each of said reception base stations receives uplink data from the basic access component provided in the mobile host located in an area within a radius of several to several tens of kilometers of the reception base station, where the base stations are dedicated for transmission and reception.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 2 and 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnarajah et al. (US 2002/0191556) in view of Hogan et al. (US 2003/0040314) hereinafter referred to as Hogan.

Claim 2 Krishnarajah discloses a basic access component as well as a radio module (element 100 in fig 2) that can be connected to at least two other radio systems, a locator and a controller (element 31 in fig 2). And the basic access component is formed by software radio or hardware.

Krishnarajah does not specifically disclose a user interface and a locator. However Hogan discloses within a mobile host, a user interface (element 38 in fig 7)

3. Hogan also discloses dedicated circuitry for dealing with location information (see Para 0041).

It would have been obvious to one of the ordinary skill in the art at the time of the invention to combine the user interface and circuitry as disclosed by Hogan, within the mobile host as disclosed by Krishnarajah. The motivation for this combination is to allow user access and to keep a constant visual of location information.

Claim 4 Krishnarajah discloses transmission base stations and

reception base stations disposed within a basic access network (elements 38 in fig 2 and elements 28 in fig 5)

Krishnarajah discloses each of said transmission base stations transmitting downlink data to the basic access component (element 33 in fig 2) provided in the mobile host located in an area within a radius of several to several tens of kilometers of the transmission base station (see fig 2), where Krishnarajah discloses a base station serving a cell, where a cell is known to serve a radius of a few kilometers (Para 0040).

Krishnarajah discloses each of said reception base stations receives uplink data from the basic access component provided in the mobile host located in an area within a radius of several to several tens of kilometers of the reception base station, where the base stations are dedicated for transmission and reception.

Claim 5, 6, 7, 8 Krishnarajah discloses the basic access network having at least one, a combination, or all of:

A function for invoking the mobile host,

Krishnarajah discloses sending a message from the basic access network to the mobile station (element 3-6 and 3-7 in fig 3), where that message contains header information equivalent to locational information (source and destination addresses).

Krishnarajah does not specifically disclose a function for processing a notification of locational information from the communication terminal.

Krishnarajah discloses performing handover with a heterogeneous radio system (see Para 0071 and 0075).

Hogan discloses a function for processing a notification of locational information from the communication terminal, where Hogan depicts a processor for doing so (Para 0042)

It would have been obvious to one of the ordinary skill in the art at the time of the invention to combine the processor as disclosed within Hogan's invention , within the radio access network as disclosed by Krishnarajah. The motivation for this combination is to process locational information received from the mobile host.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

(a) Malomsoky et al. (US 20020196760) discloses a mobile unit in communication with a base station from a radio access network, where the RAN is connected to a core network (see fig 6).

Art Unit: 2667

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P. Grey whose telephone number is (571)272-3160. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571)272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Grey
Examiner
Art Unit 2667

C. Grey
12/27/05



CHI PHAM
SUPERVISORY PATENT EXAMINER
ELECTRONIC BUSINESS CENTER

12/27/05